



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

NOTICE OF ALLOWANCE AND ISSUE FEE DUE

0002/1025

FELIX L FISCHER  
LAW DEPARTMENT  
ALLIEDSIGNAL INC TURBOCHARGING SYSTEMS  
23326 HAWTHORNE BOULEVARD SUITE 200  
TORRANCE CA 90505

APPLICATION NO.	FILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	DATE MAILED
03/361,644	07/27/99	006	TRIEU, T	3748 10/25/00
First Named Applicant	KNAACK,			35 USC 154(b) term ext. = 0 Days

TITLE OF INVENTION INTEGRALLY MOUNTED PNEUMATIC SOLENOID VALVE FOR WASTEGATE CONTROL

ATTY'S DOCKET NO.	CLASS-SUBCLASS	BATCH NO.	APPLN. TYPE	SMALL ENTITY	FEES DUE	DATE DUE
3 90006002	060-602.000	U24	UTILITY	NO	\$1240.00	01/26/01

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT.**  
**PROSECUTION ON THE MERITS IS CLOSED.**

**THE ISSUE FEE MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED.**

**HOW TO RESPOND TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay FEE DUE shown above, or
- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.

II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give application number and batch number.

Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

**PATENT AND TRADEMARK OFFICE COPY**

## Notice of Allowability

Application No. 09/361,644	Applicant(s) Russell A. Knaack et al.
Examiner Thal-Ba Trieu	Group Art Unit 3748

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance and Issue Fee Due or other appropriate communication will be mailed in due course.

This communication is responsive to \_\_\_\_\_

The allowed claim(s) is/are 1-6

The drawings filed on \_\_\_\_\_ are acceptable.

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All  Some\*  None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

A SHORTENED STATUTORY PERIOD FOR RESPONSE to comply with the requirements noted below is set to EXPIRE THREE MONTHS FROM THE "DATE MAILED" of this Office action. Failure to timely comply will result in ABANDONMENT of this application. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL APPLICATION, PTO-152, which discloses that the oath or declaration is deficient. A SUBSTITUTE OATH OR DECLARATION IS REQUIRED.

Applicant MUST submit NEW FORMAL DRAWINGS

because the originally filed drawings were declared by applicant to be informal.

including changes required by the Notice of Draftsperson's Patent Drawing Review, PTO-948, attached hereto ~~ente~~ Paper No. \_\_\_\_\_.

including changes required by the proposed drawing correction filed on \_\_\_\_\_, which has been approved by the examiner.

including changes required by the attached Examiner's Amendment/Comment.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the reverse side of the drawings. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Any response to this letter should include, in the upper right hand corner, the APPLICATION NUMBER (SERIES CODE/SERIAL NUMBER). If applicant has received a Notice of Allowance and Issue Fee Due, the ISSUE BATCH NUMBER and DATE of the NOTICE OF ALLOWANCE should also be included.

### Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

Interview Summary, PTO-413

Examiner's Amendment/Comment

Examiner's Comment Regarding Requirement for Deposit of Biological Material

Examiner's Statement of Reasons for Allowance

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### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

#### ***Election/Restriction***

This application contains claims directed to the following patentably distinct species of the claimed invention: The species of Figures 2-6, and the species of Figures 7-8.

During a telephone conversation with Mr. *Felix L. Fischer* (Reg. # 31,614) on Tuesday October 10, 2000, at 2:55PM, a provision election was made without traverse to prosecute the invention of species of Figures 2-6, **claims 1-2**. Claims 3-6 have been withdrawn from further consideration by the examiner, 37 C.F.R. § 1.142(b) as being drawn to a non-elected invention.

However, after reconsidering, the examiner found that the search for the species of Figures 7-8 was coextensive with the species of Figures 2-6; therefore, the Examiner has withdrawn the Election/Restriction Requirement.

The application has been amended as follows:

#### **IN THE CLAIMS:**

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✓      ✓      ✓

- In claims 4-6, line 1, "A" before "turbocharger" has been replaced by --The--.

***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance: The prior art fails to disclose or render obvious the claimed combination of claim 1 and 3 including:

***"Regarding claim 1:***

*- a valve mount integral with the compressor housing and disposed along a compressor housing outside surface, the valve mount including a first air port disposed therein in communication with the compressor volute, and a second air port disposed therein in communication with the compressor air intake; means for attaching the valve mount to a solenoid valve; and means for forming a leak-tight seal between the solenoid valve and the valve mount first and second air ports.*

***Regarding claim 3:***

*- a solenoid actuated valve mounted on the planar mounting face and having a poppet adapted to seal the second bore aperture in a first position and connect the aperture to a flow path in a second position, the flow path communicating with the third bore; and a control means for energizing the solenoid".*

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***Prior Art***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure and consist of the following patents:

- Roby et al. (US Patent Number 6,089,019) disclose a turbocharger having a restrictor valve, and exhaust recirculation valve.
- Kurihara (US Patent Number 5,289,683) discloses a method for controlling supercharging pressure in an automobile engine.
- Tadokoro et al. (US Patent Number 4,745,753) disclose an engine turbo-supercharger control.
- Tadokoro et al. (US Patent Number 4,404,804) disclose an internal combustion engine having a turbo-supercharger and a catalytic exhaust gas purifying device.
- Moriguchi et al. (US Patent Number 4,485,626) discloses an apparatus for controlling the ignition timing of an internal combustion engine having a turbocharger.
- Jackson (US Patent Number 4,516,401) discloses a supercharged engine charge control.
- Otobe et al. (US Patent Number 4,697,421) disclose a supercharging pressure control system for an internal combustion engine with a turbocharger and a method of operation.
- Eguchi (Patent Number JP 3566020719 A) discloses an automobile internal combustion engine with an exhaust turbocharger.

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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai-Ba Trieu whose telephone number is (703-308-6450). The examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas E. Denion, can be reached on (703) 308 - 2623. The fax phone number for this group is (703) 308 - 7763. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703)308 - 0861.

TTB

Thai-Ba Trieu

October 24, 2000

Patent Examiner

Art Unit 3748

*Thom Den*  
THOMAS DENION  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 3700